

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

0EKM-108414

Application Number

10/723,994

Applicant(s)

Martin Newman et al.

Filing Date

November 25, 2003

Group Art Unit

3711

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W		5,800,285	09/01/98	Thorne et al.	473	324	
W		6,381,828	05/07/02	Boyce et al.	29	527.4	

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W		US 2003/0060306 A1	03/27/03	Aldrich	473	342	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	Wol	
DATE CONSIDERED	9/12/05	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-A820

(also form PTO-1449)

POBAREVOS

Patent and Trademark Office * U.S. DEPARTMENT OF COMMERCE

CIVIL 1

OF 1

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

ATTY DOCKET NO.

0EKM-108414

APPLICATION NO.

10/723,994

APPLICANT(S)

Nick Frame et al.

FILING DATE

November 25, 2003

GROUP ART UNIT

3711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
u	732,136	06/30/1903	F. W. Taylor	—	—	—
u	1,094,599	04/28/14	P. E. Samson	—	—	—
u	1,289,553	12/31/18	A. H. Sanders	—	—	—
u	1,337,958	04/20/20	W. F. Reach	—	—	—
u	Des. 57,980	05/24/21	A.A. Kraemer	—	—	—

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
u	US2002/0091014 A1	07/11/02	Aldrich	422	324	—

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	GB 2 185 891 A	08/05/87	United Kingdom				
	EP 0 710 493 A1	06/08/96	Europe				
	10-277185	10/20/98	Japan			X	
						(Abstract only)	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

u		Photon Golf, Inc., "Laser Nanogroove Technology," September 15, 2003, http://www.photongolf.com/lat.htm
u		Photon Golf, Inc., "Laser Surface Modification," September 15, 2003, http://www.photongolf.com/lsm.htm

EXAMINER

DATE CONSIDERED

9/10/08

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 0EKM-108414		APPLICATION NO. 10/723,994		
				Nick Frame et al.				
				FILING November 25, 2003		GROUP ART 3711		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
u		Des. 63,284	11/20/23	H. D. Challis	—	—	—	
u		1,494,494	05/20/24	G. A. Lippincott	—	—	—	
u		1,574,731	02/03/25	H. K. B. Davis	—	—	—	
u		1,526,951	02/17/25	G. B. Beaumont	—	—	—	
u		1,532,545	04/07/25	W. B. Pederson	—	—	—	
U.S. PATENT APPLICATION PUBLICATIONS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
		Photon Golf, Inc., "Photon Driver," September 15, 2003, http://www.photongolf.com/driver.htm						
EXAMINER				DATE CONSIDERED 9/10/00				
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 0EKM-108414		APPLICATION NO. 10/723,994		
				Nick Frame et al.				
				FILING November 25, 2003		GROUP ART 3711		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
u		1,535,670	04/28/25	W. Kidd	—	—	—	
u		1,593,589	08/10/26	R. G. Tyler	—	—	—	
u		1,646,461	10/25/27	W. B. So Relle	—	—	—	
u		1,654,257	12/27/27	J. A. Millerich	—	—	—	
u		1,659,272	02/14/28	A. C. Link	—	—	—	
U.S. PATENT APPLICATION PUBLICATIONS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
EXAMINER			DATE CONSIDERED 9/10/00					
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

ATTY DOCKET NO.

0EKM-108414

APPLICATION NO.

10/723,994

Nick Frame et al.

FILING

November 25, 2003

GROUP ART

3711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
u	Dec. 79,584	10/22/29	P. M. R. Munro-Spencer	—	—	—
u	1,968,626	07/31/34	L. A. Young	273	78	—
u	Dec. 138,380	07/25/44	L. Myers et al.	D34	5	—
u	2,429,351	10/21/47	L. R. Fetterolf	273	78	—
u	3,211,455	10/12/65	A. G. Hyden	273	78	—

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER

DATE CONSIDERED

9/12/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

ATTY DOCKET NO.

0EKM-108414

APPLICATION NO.

10/723,994

Nick Frame et al.

FILING

November 25, 2003

GROUP ART

3711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
h	3,869,126	03/04/75	Thompson	293	175	
u	4,027,885	06/07/77	Rogers	273	169	
u	4,156,526	05/29/79	Higgins et al.	273	78	
u	4,413,825	11/08/83	Sasse	273	175	
h	4,422,638	12/27/83	Tucker	273	78	

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

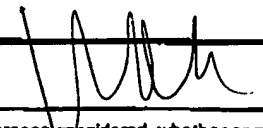
OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER

DATE CONSIDERED

9/12/08

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 02KM-108414		APPLICATION NO. 10/723,994		
				APPLICANT(S) Nick Frame et al.				
				FILING DATE November 25, 2003		GROUP ART UNIT 3711		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
u		4,508,349	04/02/85	Cebauer et al.	273	175	—	
u		4,529,203	07/16/85	Ribando	273	173	—	
u		4,679,792	07/14/87	Straza et al.	273	78	—	
u		4,681,322	07/21/87	Straza et al.	273	173	—	
a		4,740,345	04/26/88	Nagasaki et al.	264	257	—	
U.S. PATENT APPLICATION PUBLICATIONS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
EXAMINER				DATE CONSIDERED				
				9/12/00				
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. 0EKM-108414	APPLICATION NO. 10/723,994
	Nick Frame et al	
	FILING November 25, 2003	GROUP ART 3711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
u	4,768,787	09/06/88	Shira	273	175	—
u	4,884,808	12/05/89	Retzer	273	77 A	—
u	4,964,641	10/23/90	Miesch et al	273	175	—
u	4,999,000	03/12/91	Finney	273	167 B	—
u	5,083,778	01/28/92	Douglass	273	78	—

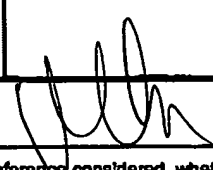
U.S. PATENT APPLICATION PUBLICATIONS

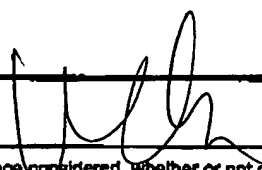
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER		DATE CONSIDERED	9/12/05
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>			

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 0EXM-108414		APPLICATION NO. 10/723,994		
				Nick Frame et al.				
				FILING November 25, 2003		GROUP ART 3711		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
cl		Des. 340,492	10/19/93	Flood	D81	214		
u		5,301,941	04/12/94	Allco	273	78		
a		5,332,214	07/26/94	Tucker, Sr.	273	78		
u		5,358,249	10/25/94	Mendrala	273	173		
u		5,403,007	04/04/95	Chen	273	173		
U.S. PATENT APPLICATION PUBLICATIONS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
EXAMINER				DATE CONSIDERED				
				9/12/02				
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 0EKM-108414		APPLICATION NO. 10/723,994	
				Nick Frame et al.			
				FILING November 25, 2003		GROUP ART 3711	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
h		5,405,136	04/11/95	Hardman	273	173	—
h		5,407,196	04/18/95	Bussardo	273	78	—
h		5,437,088	08/01/95	Igarashi	29	527.6	—
h		5,443,386	08/29/95	Marshall	273	194A	—
h		5,447,311	09/05/95	Violas et al.	273	193	—
U.S. PATENT APPLICATION PUBLICATIONS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER				DATE CONSIDERED 9/12/02			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

 ATTY DOCKET NO.
 0EKM-108414

 APPLICATION NO.
 10/723,994

Nick Frame et al.

 FILING
 November 25, 2003

 GROUP ART
 3711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U	5,688,190	11/18/97	Rowland et al.	473	330	
U	5,690,562	11/25/97	Sturm	473	340	
U	5,704,850	01/06/98	Shieh	473	324	
U	5,716,290	02/10/98	Baker et al.	473	313	
U	5,766,093	06/16/98	Rohrer	473	329	

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

 EXAMINER  DATE CONSIDERED 9/12/00

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

 ATTY DOCKET NO.
 0EKM-108414

 APPLICATION NO.
 10/723,994

Nick Frame et al.

 FILING
 November 25, 2003

 GROUP ART
 3711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ll	5,807,190	09/15/98	Krumm et al.	473	342	—
ll	5,879,243	03/09/99	Backman	473	342	—
ll	Des. 411,275	06/22/99	Bottema et al.	D21	759	—
ll	5,921,871	07/13/99	Fisher	473	329	—
ll	5,924,939	07/20/99	Grace et al.	473	324	—

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)ATTY DOCKET NO.
08KM-108414APPLICATION NO.
10/723,994

Nick Frame et al.

FILING
November 25, 2003GROUP ART
3711**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
u	Dec. 415,809	10/26/99	Bottema et al.	D21	759	—
u	6,089,993	07/18/00	Woodward et al.	473	331	—
u	6,277,833	08/21/01	Krumme et al.	473	343	—

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.